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THE PATENT WROUGHT IRON

Air-tight Gas Consuming Furnace,

WITH PERMANENT

WROUGHT IRON RADIATOR,

FOR BURNING

Anthracite and Bituminous Coal,

COKE OR WOOD,

MANUFACTURED BY

J. REYNOLDS & SON,

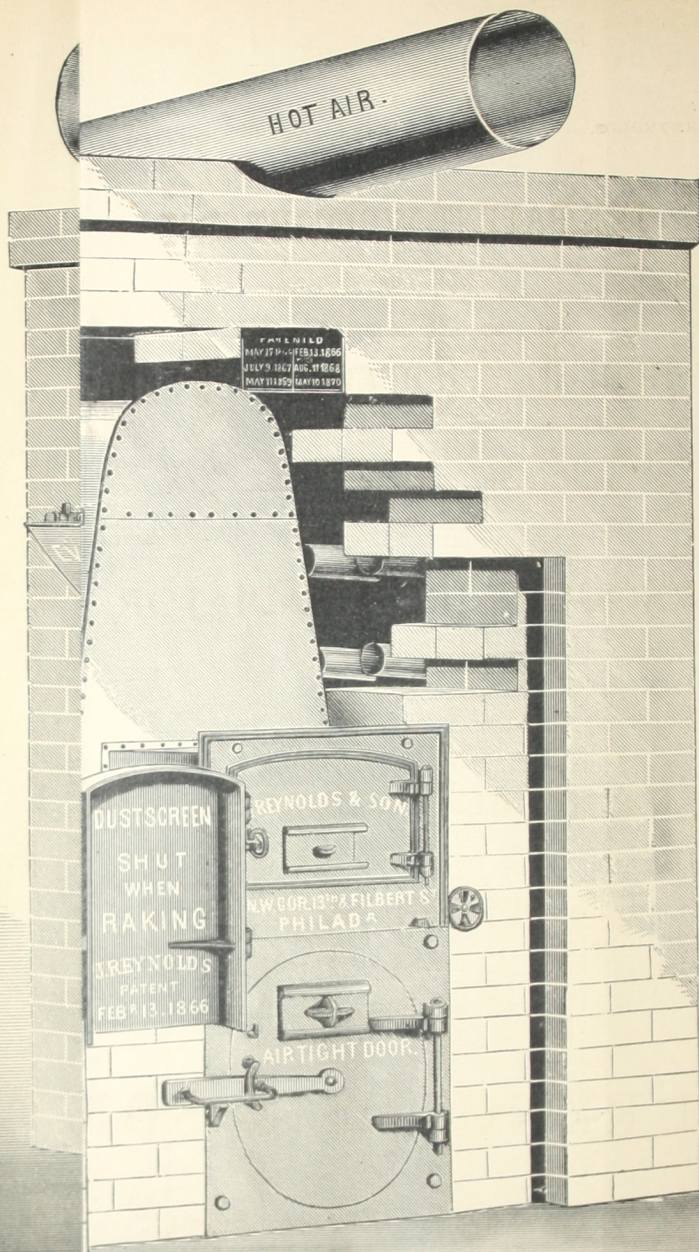
N. W. Cor. Thirteenth and Filbert Streets,

PHILADELPHIA, PA.

n.d. (c. 1880)







JESSE REYNOLDS.

WILLIAM T. REYNOLDS.

WILLIAM STEFFK.

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THE PATENTED
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BURNING ANTHRACITE AND BITUMINOUS COAL, COKE OR WOOD,

MANUFACTURED BY

J. REYNOLDS & SON,

11 N. CORNER OF THIRTIETH AND GILBERT STREETS,

PHILADELPHIA, PA.

Special and careful attention is invited to our PATENTED WROUGHT IRON AIR-TIGHT FURNACE with PERMANENT WROUGHT IRON RADIATOR.

It is not manufactured and sold as an ordinary cheap or inferior article, but the very *best and most approved*, and to supply the increasing demand for a *first class, healthy, economical, efficient, simple, and positively safe and reliable* HEATING APPARATUS, with which no one will in any way be the least disappointed.

It has been thoroughly tested for many years with all the various kinds of fuel common to our country, in every description of buildings, and has given universal and unequalled satisfaction; each one of them is made with extreme care, of the very best selected materials, by skilled workmen, under our personal supervision, and no expense whatever, is spared to make it first class and durable in every respect. It is so far superior to all other WARM AIR FURNACES in its construction, and all the requisites of a perfect HEATING APPARATUS, that no comparison, whatever, can be justly made between them; they are made of various sizes, suitable for setting in *anywhere*.

OBJECTIONS TO CAST IRON FURNACES.

It is the universal testimony of the leading scientific men of this Country and Europe, from the many practical tests and experiments they have made with Furnaces and Stoves constructed of the various materials used for the purpose, "That it is impossible to construct FURNACES OR STOVES of CAST IRON and secure total impermeability to the fatal gases generated, (carbonic oxide and carbonic acid) owing to its porosity or crystalline structure" and, "That these poisonous, health and life destroying gases can be securely held until safely conveyed to the smoke flue or chimney, by making the Furnaces of *wrought iron plates*, riveted together tightly as a *Steam Boiler*. For full account of these interesting experiments, see "Anthracite and Health," by Dr. Geo. Derby, Boston, Mass.; "Notes on Experiments on the Permeability of Cast Iron by Gases," by Gen. Morin, Paris; "London Philosophical Magazine," vol. 22, 1866; "Appleton's Journal," vol. 3, No. 53; "Boston Journal of Chemistry," vol. 4, No. 10; "Scientific American," 1871; and other authorities.

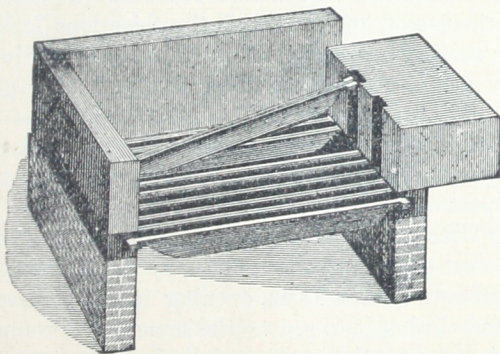
"Furnaces should not be made in part of *cast iron* and in part of *wrought iron*, as the different crystalline structure of these metals creates energetic galvanic currents, and where the two join, oxidation goes on so rapidly, assisted by the deposits of ashes about the joints becoming moist when the furnace is not in use, that the whole is quickly destroyed."

ALL CAST IRON FURNACES are necessarily made in pieces, the joints being cemented with putty, or similar material; some are made with grooves in which the different parts rest; these grooves being filled with sand or cement, the constant expansion, contraction and changes of heat invariably warp these pieces, loosen the fittings, the cement falls out, and large openings are thereby made for the escape of GAS, DUST and SMOKE into the air chamber; no fastenings yet devised are sufficient to keep these pieces from separating by the expansion and contraction of the metals, nothing can resist this power. When the damper in Smoke Pipe of Furnace is partially or wholly closed to regulate the draft, especially when the fire is fixed for the night, the escape of gas through these openings or joints, is very largely increased, making them very objectionable and dangerous; these are incontrovertible facts.

CONSTRUCTION OF OUR WROUGHT IRON FURNACES.

The large illustration gives a general idea of the appearance of our Furnace and aids us in the explanation of its construction. It is made of the very best quality of WROUGHT IRON PLATES (those nearest the fire being $\frac{1}{4}$ inch thick) riveted together as tightly as those of a *steam boiler*, so that it is practically of one piece; dispensing entirely with all SAND, CEMENT, OR PUTTY JOINTS, the only safe and sure method of preventing the escape of GAS, DUST AND SMOKE into the Air Chamber. *Wrought iron* being an elastic material will bend before breaking, and riveted together in this manner will expand and contract in the mass without disturbing the seams. The main part or top of the Furnace, is strongly bolted down upon wrought iron side plates which enclose the tile or lining of Fire Pot and extending down into the brickwork of the Ash Pit; or, if preferred upon a Wrought Iron Bottom or Ash Pit.

SECTION OF FIRE POT.



THE FIRE POT is oblong square and shallow; it is formed by four heavy, well burned clay tile or linings four inches thick, one for each side. Owing to its shape it can be easily kept clean and free from clinkers or any obstruction, by simply passing the poker against the sides and removing them daily. This cannot be done with any round fire Fire Pot, which soon fills up and requires constant relining. On the top of these tile are placed perforated hollow plates, forming air chambers from which air which is previously heated in its passage around the Fire Pot, is dis-

charged in jets over the fire, commingling with the gases and smoke from the fuel, causing them to ignite and burn; adding much to the heat produced.

THE GRATE is made of separate bars, any one of which can be removed and replaced without disturbing the others. The two centre ones are wrought iron draw bars, and when necessary to clean the fire pot, are drawn out, allowing the contents to fall into the ash pit; the rests or bearing bars are placed under the front and back tile, and the ends of the grate bars inserted therein, (as shown in cut of fire pot;) this prevents any obstruction to the draft reaching every portion of the fire pot, giving at all times, a bright glowing fire in every part of it, and making it a very easy matter to readily clean it of all ashes.

THE RADIATING SURFACE of our furnace is largely increased by our PATENT PERMANENT WROUGHT IRON RADIATOR. It is also made of heavy wrought iron plates well riveted together, and is internally divided, so that the products of combustion in passing from the furnace through it, have to pass first down, then up, then down, and then up, before reaching the smoke flue; it supersedes the use of, and avoids all the objections (leakage of gas and smoke, rusting out, and constant repairing), to, the old style of pipes or drums formerly used in this, and now generally in very many other furnaces. The PATENT RADIATOR can be cleaned from the outside of furnace through the clean out doors provided for the purpose, by any person, at any time, without disturbing the fire or any part of furnace.

THE FURNACE IS REGULATED easily and perfectly without the use of dampers or valves, by the BRASS SLIDE in the ROUND AIR-TIGHT DRAFT DOOR, opening it to increase the draft and heat, and closing it to reduce the same. The round air tight draft door is an essential and specially important feature of the furnace, and as designed and made by us is not to be found on any other except as a poor imitation. The beveled edge on the door and counterpart of the frame are turned and ground, making a perfectly air-tight joint; the brass slide is planed and nicely fitted, the beveled edge on door and frame, in conjunction with the peculiar construction of the latch, avoids the breaking of the frame by the more rapid expansion of the door, at the same time keeping it always air-tight. The upper or feed door of the furnace is always

kept closed, except when supplying with fuel; thus no currents of cold air are allowed to pass in over the fire, thereby cooling and very sensibly reducing the temperature of the radiating surfaces, as is the case with all furnaces that require the opening of the upper or feed door to regulate or check draft and fire. By our plan of regulating by the slide in air-tight draft door, and keeping the feed door closed, the draft is under perfect control, and the temperature of radiating surfaces kept uniform; when the fire is fixed for the night, the temperature of the house is not reduced more than three or four degrees, ensuring the great and enjoyable comfort of a warm house continuously. During the late Spring and early Fall months, when little heat is required, in the morning and evening, a small fire can be made and (by the air-tight door) so regulated as to allow those apartments most distant from the furnace to be moderately warm, without any more oppression at those in close proximity; or, *wood* can be burned at these times.

The greatest heat and economy can only be obtained by the exercise of some care in the management of the furnace, and strictly complying with the few simple directions for its control, especially in the reference to its attention. The fire pot (when burning anthracite coal) should be raked clean and clear of all ashes every morning, and filled up with coal to the top of the side tile or linings, and no higher, except in the middle; the draft door should then be left open until the coal is thoroughly ignited to a bright red heat, when it must be closed, and furnace regulated by brass slide, or THE AUTOMATIC HEAT AND DRAFT REGULATOR (a description of which is given on another page). No more coal should be put on before night time unless absolutely necessary, which is seldom; the fire need not be let go out once during a whole Winter season. By its peculiar construction it does not get red hot in any part, but generates a soft, genial, Summer-like heat, in no way the least injurious.

DUST.

One of the greatest annoyances found in all kinds of Heating Apparatus, is that arising from the Dust when raking the ashes from the fire pot. Being dry and hot, it is scattered around the cellar and drawn into the cold air openings, entering the apart-

ments through the registers. To overcome this various plans have been adopted, the most common being the ordinary dust flue, which connects the ash pit with smoke flue, and has a damper to open or close it as required. If after done raking, this damper should be left open by the forgetfulness of the servant (and it most generally is), the draft is through the fire downwards out through the dust flue, burning and destroying the grate. This dust flue becomes filled with ashes, the damper rusts off, and requires much time and frequent expense to keep in order.

THE PATENT DUST SCREEN attached to our furnace is a perfect remedy for all these defects and difficulties. It is simply a box door opened at the bottom, placed on the left hand side of the feed door of furnace, and long enough to cover the opening of the upper and part of that of the lower or draft door. When the fire wants raking, the doors are opened, and the Dust Screen is shut over their openings, forming a flue from the ash pit up over the fire through the upper door for the escape of the dust which is invariably drawn into it by the draft of the flue; the doors of the furnace cannot be shut, until this screen is put back in its proper position.

All these improvements in our furnace are secured by LETTERS PATENT. It is offered as a complete and desirable HEATING APPARATUS in every respect; and if proper care be given it, it will last a life time and cost but little to keep in repair; all furnaces sold by us are put up by experienced workmen furnished by us, and guaranteed to give satisfaction, thereby relieving the purchaser of all risk should they fail.

STEAM AND HOT AIR.

Great efforts are constantly made against WARM AIR FURNACES and in favor of STEAM FOR HEATING PURPOSES, asserting that the heat from Steam Heaters is more moist and healthy than that from Warm Air Furnaces, etc., which is not true as, "Iron heated to any possible point attained in Hot Air Furnaces has no power to abstract moisture from the air. Theory and practice in this respect are in perfect accord. Each confirms the other." Buildings specially arranged for drying cotton, cloth, wool, lumber and other materials are usually heated by *Steam pipes*. The air from a Steam Heater is generally oppressive, produces discomfort, and

lacks vitality on account of its intensity. When the Radiators or Coils are placed in the apartments there is no circulation, as the air in them is heated by direct contact with them; when they are placed in the cellar under the hot air flues, the steam often condenses before it reaches those flues farthest from the boiler, making it necessary to keep up large fires and heavy pressure to obtain the required heat in those apartments during cold weather.

Other disadvantages in the use of steam for heating purposes, are: the expense in erecting and maintaining the apparatus, the time required to raise the water to the boiling point and fill the Radiators with steam, the difficulty of obtaining moderate heat in mild weather, and the necessity of watchfulness to avoid the possibility of the water freezing in the supply pipe and boiler bursting them, should the fire, by accident or carelessness, go out during severe winter weather: this accident has frequently happened with much damage.

In the use of steam for any purpose there is always more or less danger, as pressure, no matter how small, implies force, and, with the ability to produce force, the possibility of explosion, as safety valves and similar devices are not always reliable, especially when left to the care and management of unskilled, inexperienced or careless servants, a fact too often proved.

PATENT

WROUGHT IRON AIR-TIGHT GAS CONSUMING FURNACE

FOR BURNING

BITUMINOUS COAL OR COKE.

5 SIZES.

A WARM AIR HEATING APPARATUS, specially and perfectly adapted to the economical and satisfactory burning of BITUMINOUS or WESTERN COAL and COKE, and in which all kinds of fuel can be used, one equally as well as the other without

changing any part of it, is our WROUGHT IRON AIR-TIGHT GAS CONSUMING FURNACE. It is without any doubt the only one in which this can be, and is done with universal success and satisfaction, it is unhesitatingly recommended, from the severe tests made with it, as the only approved and reliable SOFT COAL HOUSE WARMING FURNACE in this country.

The great disadvantages in ALL CAST IRON and other FURNACES for burning this description of fuel, are their imperfect construction, the frequent attention required to keep them supplied and replenished with coal, the filling up of the pipes and flues readily and continuously with soot and dirt, the great difficulty experienced in cleaning them properly, the inevitable cracking and burning out of the Fire Pot and parts exposed to the direct action of the fire, constant provoking and disagreeable annoyance from the Smoke, Gas, and Dust escaping from the many joints, cracks and openings into the air chamber and being dispersed over the entire house, and their frequent liability to expensive repairs, if not entire renewal. These are all overcome and entirely obviated in our Furnace, it is guaranteed to be absolutely free from any one of them or any other objections to Furnaces for burning soft coal, and is warranted to give satisfaction.

It is exactly similar in construction to our Furnace for burning Anthracite Coal, except that it is made of heavier iron well stayed and braced with angle irons to prevent the possibility of its warping. It is made wider above the fire, the fire pot is deeper and of sufficient capacity to hold, under ordinary circumstances, fuel for one day's consumption; the clay tile linings of the fire pot are wider at the top than at the grate, and so shaped as to cause the flames to be directed towards the center of fire pot instead of against the sides of the Furnace. The chambers for heating the air for the combustion of the Smoke and Gases and the perforations for admitting it in jets over the fire, are made in the clay tile. It can be thoroughly cleaned at any time without annoyance or disturbing the fire, by either scraping out the soot or setting it on fire and burning it out; sufficient convenient openings for the purpose being provided.

There not being any dampers in our Furnace, the flue is unobstructed and a free exit is given to the unconsumed products of combustion. The fire and heat is kept under perfect control by

the BRASS SLIDE in the AIR-TIGHT DRAFT-DOOR. The commonest WESTERN or BITUMINOUS COAL, Slack, Coke, and in fact anything used as fuel can be burned in it. Being specially made for Soft Coal there is not the slightest difficulty in burning either Hard Coal or Wood in it at any time, no change of any part being necessary. We are satisfied we cannot say too much in its favor, and refer with great pleasure to the testimonials received from well known parties in the Soft Coal region, who are using them, and who give undoubted evidence of their great efficiency and value.

PATENT

WROUGHT IRON FURNACE

WITH PERMANENT WROUGHT IRON RADIATOR

FOR BURNING

WOOD AND STUMPS.

We also make a first Class Wrought Iron Furnace for setting in brick-work, particularly adapted to the burning of wood and STUMPS; it has doors sufficiently large to admit wood without splitting, thereby avoiding frequent and constant replenishing; it is provided with the Patent Permanent Radiator, Evaporator, and all conveniences for cleaning it; it is the most durable, efficient and economical Wood furnace in the market, and guaranteed to give perfect satisfaction.

1776

THE PATENTED

1876

CENTENNIAL WROUGHT-IRON FURNACE

FOR BURNING

BITUMINOUS COAL OR COKE,

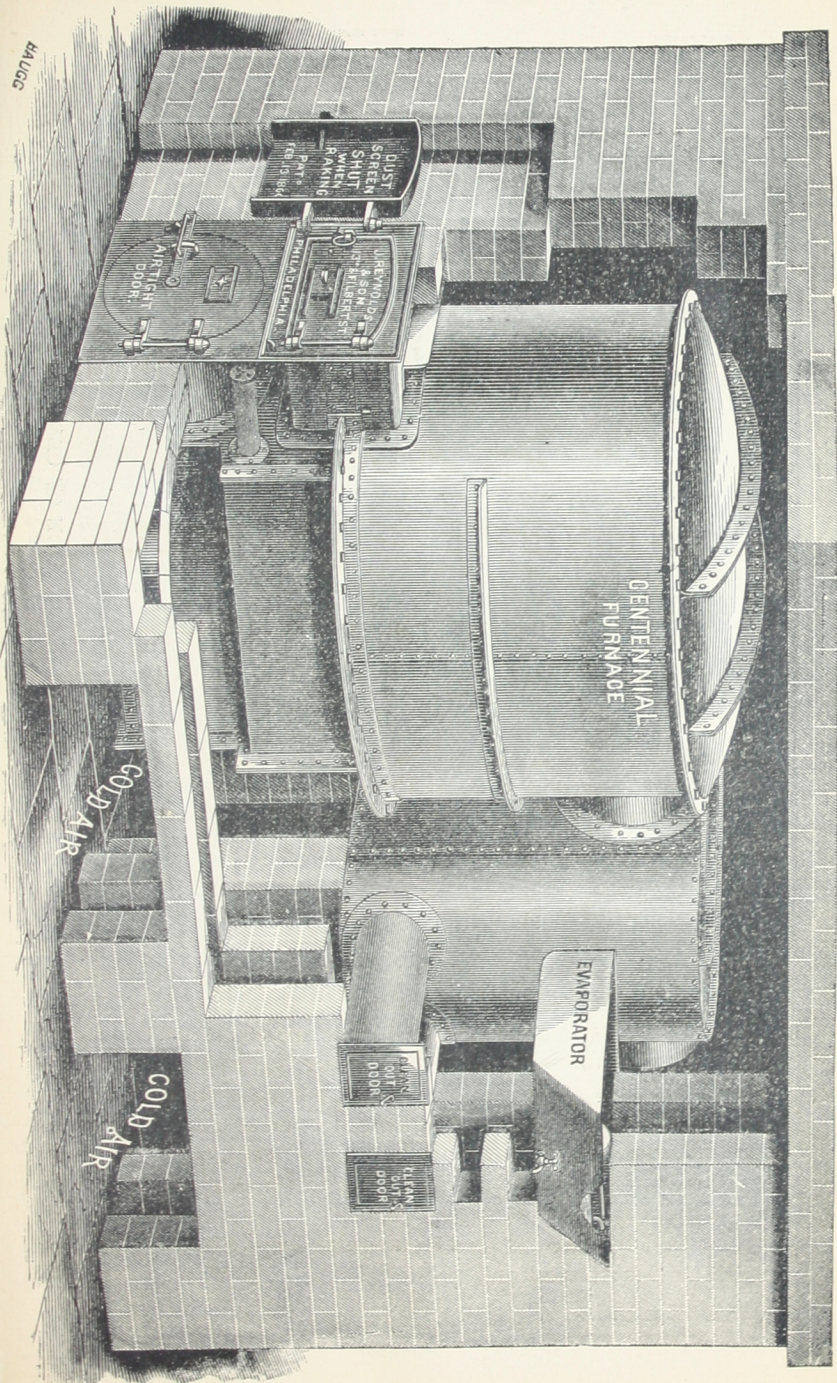
THREE SIZES FOR BRICK-WORK.

This Furnace is specially designed for and adapted to the Warming of Public Buildings, Halls, Churches, and extra large Private Residences, where a very great amount of heat is required, and Bituminous Coal or Coke exclusively used for fuel.

After a long practical experience and most careful investigation with Bituminous Coal, becoming acquainted with the destructive effects of the intense heat generated by it on all kinds of Heating Apparatus, we have not spared any expense, labor, or materials whatever in the construction of the Centennial Furnace. It has all the improvements suggested by our extensive experience, as well as that of those who have been using this kind of fuel. We offer it not as a cheap ordinary affair, but as a perfect Heating Apparatus in every respect, believing it to be as efficient, durable, and indestructible as any Furnace can be made, with the confidence that it will stand any liberal test to which it can be submitted without the least damaging result.

It is oval in shape, with a rectangular shape Fire-Pot, and oval Radiator (see illustration).

HALCO



CENTENNIAL
FURNACE

AIR-GAS
DOOR

DUST
SCREEN
SHUT
WHEN
MAKING

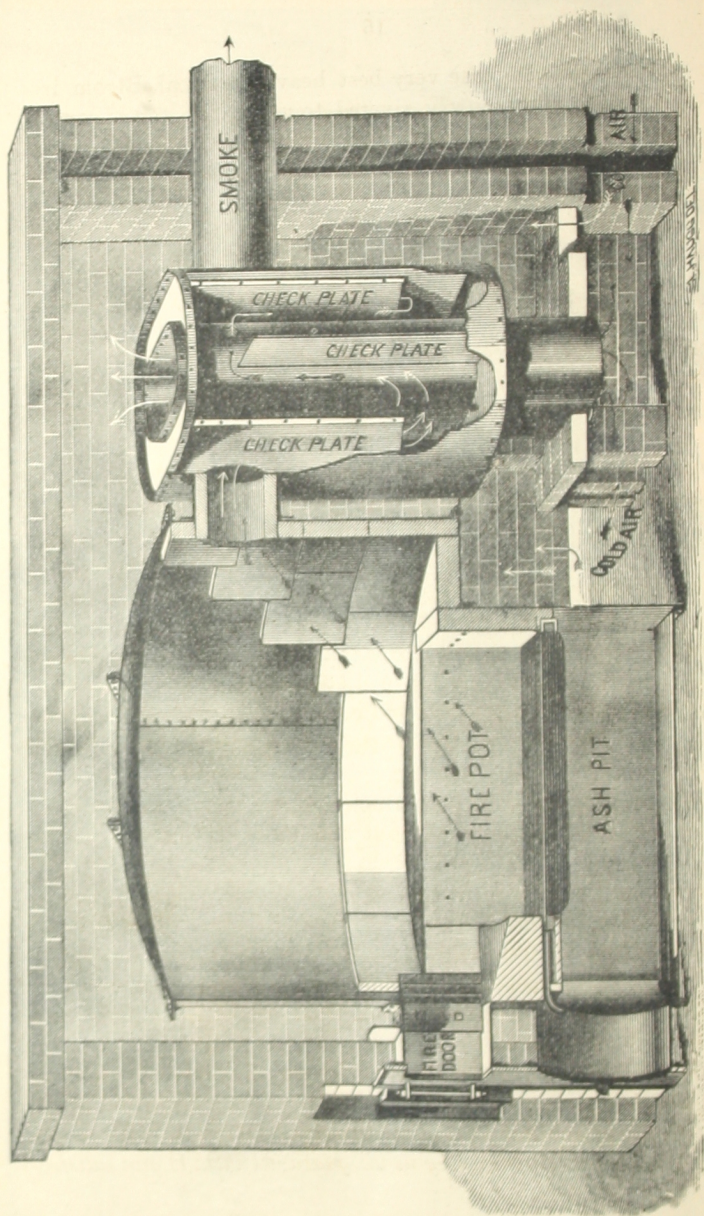
GAS
OUT
DOOR

EVAPORATOR

GAS
OUT
DOOR

GOLD AIR

COLD AIR



SECTIONAL CUT SHOWING INTERNAL CONSTRUCTION OF CENTENNIAL FURNACE.

It is constructed of the very best heavy Charcoal Bloom iron plates, carefully and securely riveted together, the top is concave and made of three pieces of iron, with raised flanges riveted through these flanges, insuring great strength and an impossibility to warp or injure it.

The sides and back above the Fire-Pot and the Collar connecting furnace with the Radiator are lined with fire-clay tiling, as an extra precaution to prevent warping and damage by the flames or intense heat generated. The Fire-Pot is made similar to that of our other Furnaces; the clay tile are much heavier and larger, ample provision being made for the combustion of the Gas and Smoke. The Grate is made of separate Bars easily removed for repair when required.

The Radiator attached to the furnace is oval in shape, has all the latest improvements, is internally divided with four partitions, causing the products of combustion to impinge on the largest amount of surface, and has an oval opening through the centre for the passage of cold air, thereby increasing the available radiating surface, and generating a larger amount of heat than any other device for the purpose. It is a permanent fixture, and can be cleaned at any time without removing, or disturbing the fire.

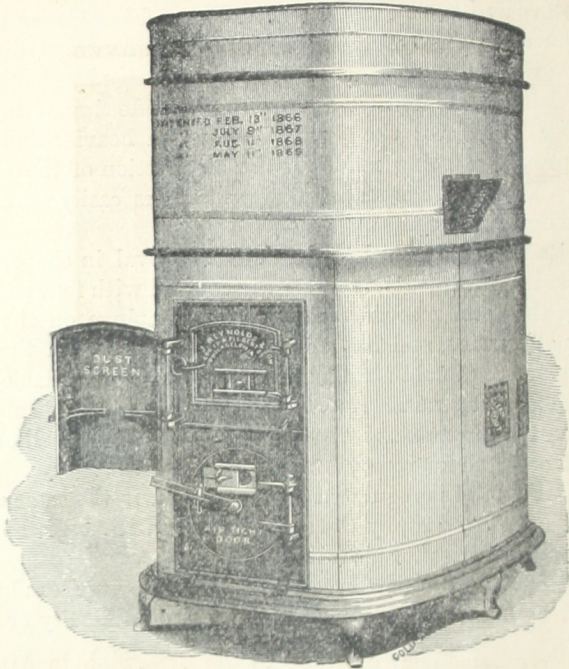
The Centennial is regulated and controlled in the same manner as our other Furnaces, by the air-tight door with brass slide, and has all the facilities for cleaning.

The linings or any part becoming damaged by use, can be easily replaced by any mechanic without the least difficulty or taking apart.

The entire Furnace is composed of only three parts. Top or Body, Ash-pit, and Radiator, all of wrought iron. The Body is securely bolted to the Ash-pit, and with the Radiator properly adjusted, the apparatus is practically and to all purposes one part or piece, making it absolutely Gas, Dust, and Smoke tight, and not in the least affected by expansion or contraction.

It is easily set up in brick-work by any first-class bricklayer, with the instructions given him. It requires a large and abundant supply of cold air well distributed to all parts. When set up by bricklayers furnished by us we guarantee them to give satisfaction.

THE PATENTED
**WROUGHT IRON AIR-TIGHT GAS CONSUM-
 ING PORTABLE FURNACE.**



FOR BURNING ANTHRACITE AND BITUMINOUS COAL, COKE OR WOOD.

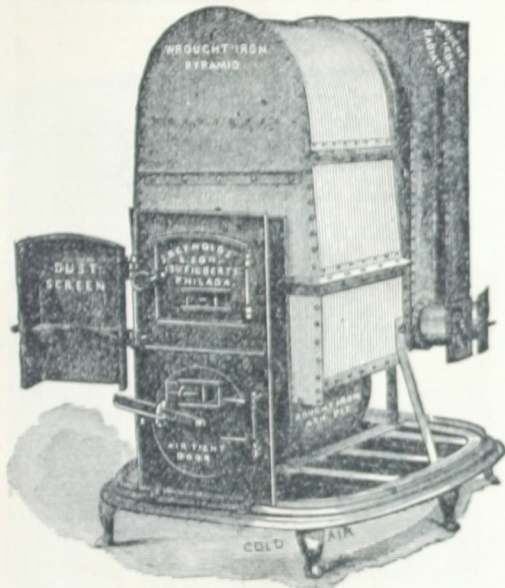
For a long time we have experienced the necessity of manufacturing a Portable Furnace similar to the one we make for setting in brickwork, and now offer to those in want of a perfectly reliable, durable and economical apparatus, the best WROUGHT IRON AIR-TIGHT GAS CONSUMING PORTABLE FURNACE ever made in this country.

It is not a cheap or inferior article, but being of the best materials and workmanship, and to supply the increasing demand for a first class Portable Furnace the price must be accordingly; if ordinary care is taken with it, it will cost very little if anything

for repairs, to say nothing of the economy in its use in which it is not equaled by any other Heating Apparatus.

In its construction, it is in every particular, exactly like our Celebrated Furnace for setting in brickwork, with the addition of a Wrought Iron Ash Pit or Bottom; the whole structure is made of the very best quality of heavy iron well riveted together. (See cut of Furnace without casing.)

FURNACE WITH CASING REMOVED.



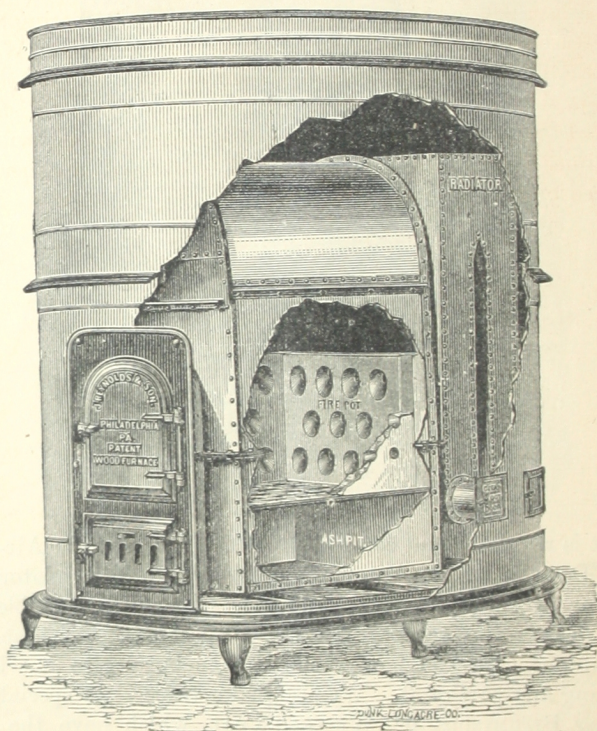
It is regulated and controlled by the Brass Slide in Air-Tight Draft Door, or by the Automatic Heat and Draft Regulator.

For warming dwellings and places in which Portable Furnaces answer the purpose, they have no equals. Anthracite or Bituminous Coal, Coke or Wood can be burned in it without changing any part of it. We also make three sizes specially for burning BITUMINOUS or WESTERN COAL, which have the same peculiarities in construction as the Furnace for setting in brickwork.

They are furnished with EVAPORATORS and PERMANENT WROUGHT IRON RADIATORS, and enclosed in either GALVANIZED or RUSSIA IRON CASES.

THE PATENT

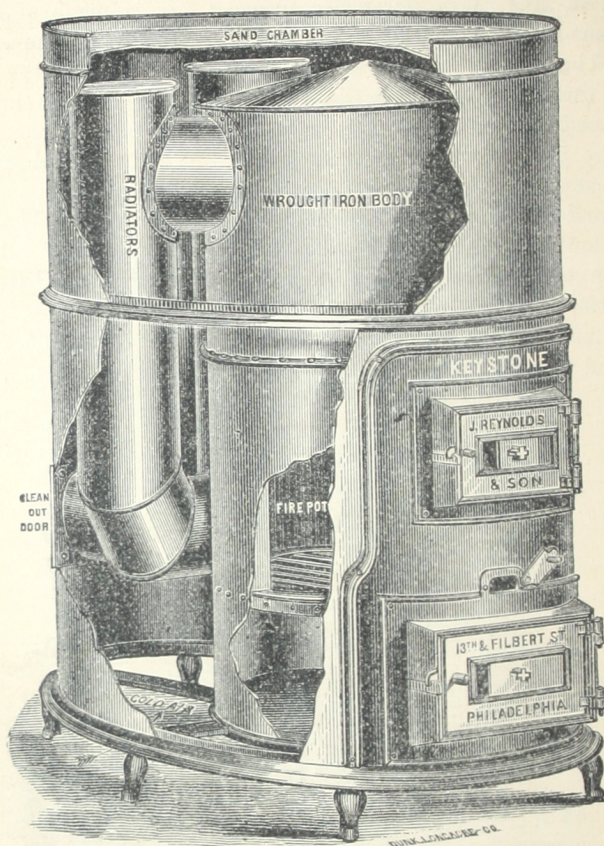
WROUGHT IRON PORTABLE WOOD FURNACE.



We are now manufacturing a WROUGHT IRON PORTABLE FURNACE for burning wood exclusively, and from the extra care taken and quality of materials used in its construction, we confidently assert, that it is without any exception whatever, the most sub-

stantial, durable, efficient and economical Portable Wood Furnace ever placed before the public. The cut gives an accurate idea of the manner in which it is made, the same style of workmanship is found in this as in our other furnaces. It is made of heavy wrought iron, well and substantially riveted together. The wood is burned on an open plate or grate. It has an ash pit below the grate, and is lined with heavy clay tile in which are numerous perforations, so shaped that they allow the heat to strike the plates surrounding the fire pot, at the same time preventing their becoming filled with ashes, which cannot lodge in them. The Radiating Surface is increased and the heat economized by the permanent Wrought Iron Radiator. This furnace heats up quickly, requires little attention, economizes fuel, can be cleaned easily without disturbing it, needs no repairing, and if properly taken care of, will last a life time. It has an Evaporator and is enclosed in either a Galvanized or Russia Iron Casing.

KEYSTONE PORTABLE FURNACE.



BODY 24 INCHES DIAMETER.

GRATE 18 INCHES DIAMETER.

FOR BURNING ANTHRACITE OR BITUMINOUS COAL AND COKE.

To supply the demand for a First Class Portable Furnace at a moderate price, we are now offering our KEYSTONE PORTABLE FURNACE. It is made of No. 14 Best Bloom iron, well riveted and seamed together. No cast iron being used in its construction, except for the Doors and Grate; it has two permanent 9 inch Drums,

fectly reliable, and besides maintaining a uniform and even temperature in the house, is very economical, saving fuel, the coal does not clinker and melt, but the combustible portions of it are all consumed.

It is furnished with our furnace, to those who desire it, for a small extra charge in comparison to its many valuable and decided advantages, and can be attached to any furnace or Heating Apparatus.

CONSTRUCTION OF FLUES.

Too much care and attention cannot be given to the proper construction of Flues for either Smoke or Hot Air. Many a FURNACE HAS BEEN CONDEMNED, PRONOUNCED A FAILURE, and continual trouble given to, and expense incurred by, the maker, when the entire fault and difficulty was in the very careless and imperfect manner in which the flues were built. It often seems that those having them in charge, suppose that any flue will answer the purpose no matter how small, crooked, or badly finished, so that it is built in some place that does not interfere with the symmetry or appearance of the apartments. Smoke and hot air flues should be at least 9x13 inches in the clear; smaller ones to be used only as a case of necessity. Smoke flues if possible should be topped out above the highest point of the roof to prevent the currents of air being driven down them, and otherwise impeding the draft. All flues should be uniform in size, well and smoothly pargeted with good strong mortar; the smoke flue should be so carefully separated from the hot air flues as to always prevent the possibility of an opening from one to the other. Whenever practicable hot air flues should be built in the inner walls and located as near each other and the heating apparatus as possible, to avoid long hot air pipes through the cellar. These matters should receive personal attention as the building progresses, and not be left to the judgment of indifferent workmen, as any attention given to the flues is well repaid by the economy and comfort in heating a house. We will cheerfully give our personal attention to the locating of flues, and give proper directions for their construction.

VENTILATION.

So much has been written and said on this subject, that we intend only to state a few facts and give our advice in reference

to Ventilation as it relates to the heating, comfort and healthy condition of our Dwellings. It is certainly an undisputed fact, that a well heated house is more comfortable and healthy, in proportion to its being well Ventilated. What we desire, is an active circulation of pure warm air through the different apartments and a free and unobstructed exit for all that becomes impure. Hot air as it enters the rooms through the Registers immediately ascends towards the ceiling, and with more or less rapidity, as it is more or less heated. Cold and foul air is found at the floor, or below the breathing line. Now if an opening be provided in a flue near the floor for the escape of this cold or foul air, the hot air as it continuously enters and rises forces the cold air out, creating at once a circulation; various methods have been adopted for accelerating and increasing this circulation, among the most approved and successful of which, are: That of having Open Grate Fires or open Fire places in as many of the rooms as possible, or by making the Smoke flues for Heating Apparatus and Range, larger than usual, and putting in them a Cast iron or Terra Cotta Pipe for the Smoke, using the space around it for a ventilating Shaft, or flue, the pipe becomes very hot by the passage of the Smoke and Gas through it, and by being thus heated creates a very strong draft upwards in the flue around it, in all rooms through which these flues pass, openings can be made in them for Ventilation, at the floor or just above the Wash board, those rooms not adjacent to the flues, can have openings made in the floor, and carried between the joists to them, the pipes should be well stayed and extend up to the top of the chimney, no openings need be made into them near the ceiling, as they would let the hot air escape, should a room become too hot, close the hot air Register and open a door, never open a window, especially in a School House, Church or Public Hall, until all other means to cool them off have been exhausted, as this allows the hot air to escape and the cold to rush rapidly in. If either of the above plans are adopted and carefully followed the complete ventilation of the building will be successfully accomplished. No house should now be built without some provision being made to ventilate it. We will at any time properly locate ventilating flues in buildings or on the plans and give any information necessary.

COOKING APPARATUS

FOR

HOTELS, RESTAURANTS,

Public Institutions and Private Dwellings,

FOR BURNING

Anthracite and Bituminous Coal

OR WOOD.

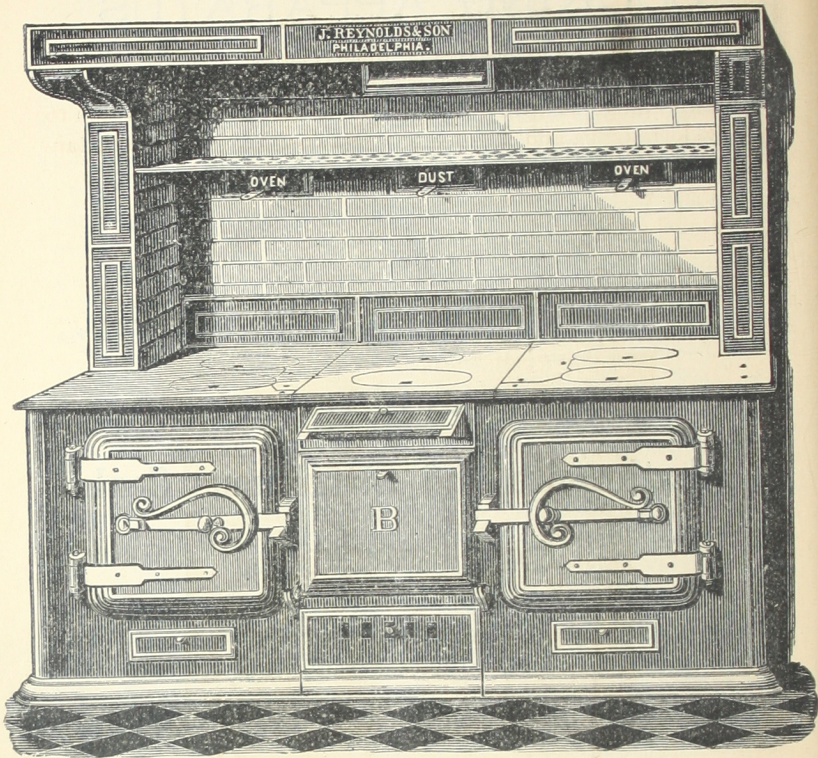
KITCHENERS, FRENCH RANGES, OYSTER RANGES, HEATING RANGES,
FRENCH BROILERS, CARVING TABLES, CAKE GRIDDLES,
IMPERIAL URNS AND KITCHEN FURNITURE
GENERALLY.

We are manufacturing and have for sale all the variety of COOKING APPARATUS of the most approved kind, combining the modern improvements required by the different styles of cooking. Our Ranges are made of Heavy Castings and great care taken in their construction and general appearance. They are put up by experienced workmen and guaranteed to give satisfaction.

The fitting up of FIRST CLASS KITCHENS a specialty, to which we give our personal attention.

Estimates and plans will be furnished for Cooking Apparatus of any description.

B. KITCHENER.



Plain Black Front or Polished. For Wood or Coal.

Length of Range 5 ft. 9 inches. Grate 16 inches.

Two Ovens, each 16 inches high, 16 inches wide and 24 inches deep.

This Range is the heaviest, most substantial and elegant in its general appearance now offered for sale in this city. It is finished with great care, and designed for First Class Private Kitchens, or Small Hotels and Restaurants; it has large Ovens, Plate Rack and Grate adapted for roasting in front; it can be set up with Water Back and Copper Tubes for Circulating Boiler, or with Back Log Boiler, and to heat one or more rooms over it, if so desired.

Price \$	Water Back and Copper Tubes, \$
Polished Front \$	extra.

C. KITCHENER.

Plain Black or Polished Front.

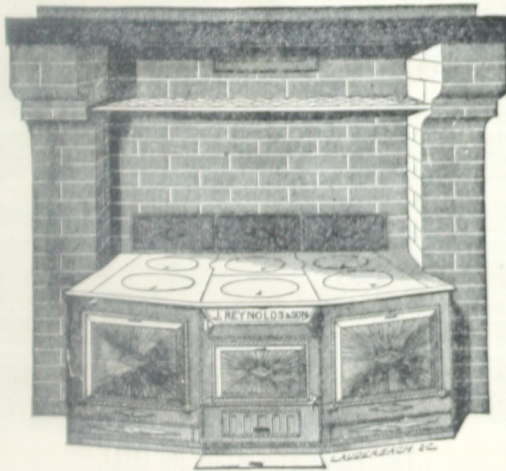
Length of Range 4 feet 9 inches. Grate 14 inches.

Two Ovens, each 13 inches high, 13 inches wide and 23 inches deep.

This Range is exactly similar in design and construction to the B. KITCHENER and finished and mounted in the same substantial manner.

Price \$ Water Back and Copper Tubes \$
Polished Front \$ extra.

SMALL DOUBLE OVEN FAMILY RANGE



TWO SIZES.

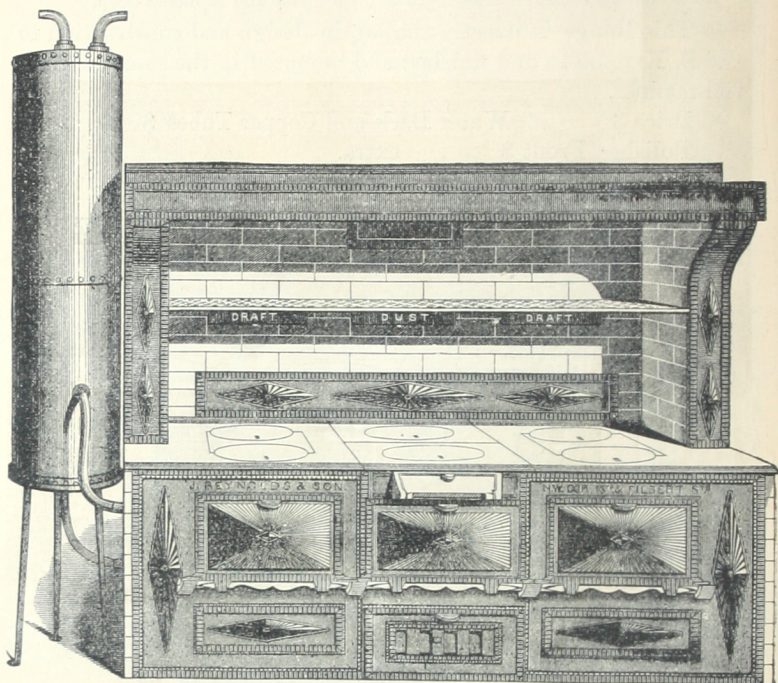
Length 4 ft. 3 inches and 4 ft. 5 inches. Grates 14 and 16 inches.

2 Ovens each 10½ inches high 12 inches wide and 23 inches deep.

This RANGE has been in use for a number of years, and has given in every case perfect satisfaction. It will do all the cooking required by a family of 12 persons, it is made of heavy castings well finished and put together. It has been and will continue to be a favorite among housekeepers. It has a roasting grate and plate-rack and set up with either Water back and Copper tubes for CIRCULATING BOILER or with BACK LOG BOILER.

Price \$ Water Back and Copper Tubes, \$

LARGE DOUBLE OVEN FAMILY RANGE.



TWO SIZES FOR WOOD OR COAL.

Length of Range 5 ft. 3 in. and 5 ft. 5. Grates 14 and 16 in.

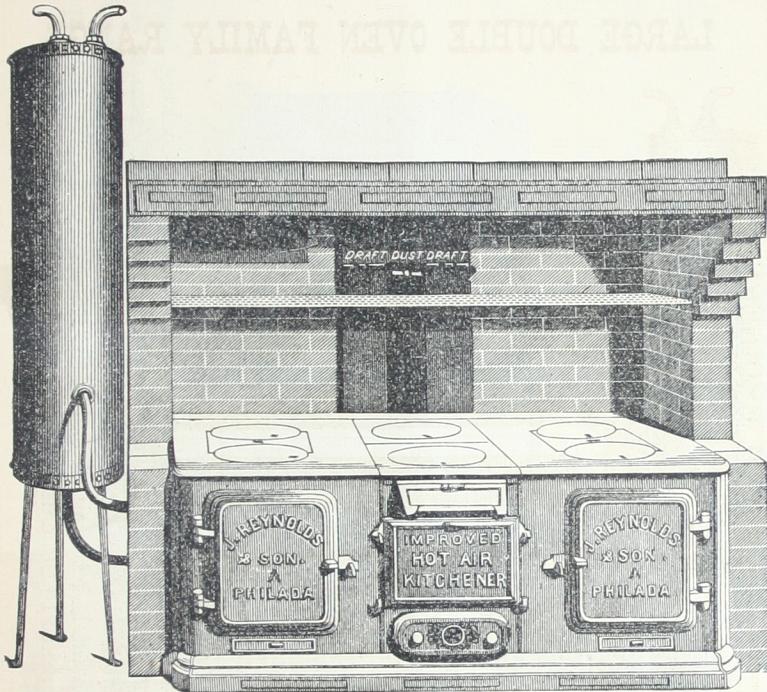
Two Ovens each 10½ inches high, 14½ inches wide, and 22 inches deep.

This is one of our oldest and well tried Ranges which has given universal satisfaction; the castings are very heavy and well finished, it has a large top surface, Grate adapted to Roasting or Broiling in front, and plate rack. It is furnished either with Water Back and Copper Tubes for Circulating Boiler or Back Log Boiler and warranted to give perfect satisfaction.

Price \$

Water Back and Copper Tubes \$

IMPROVED HOT AIR KITCHENER.



WITH BLACK OR POLISHED FRONTS.

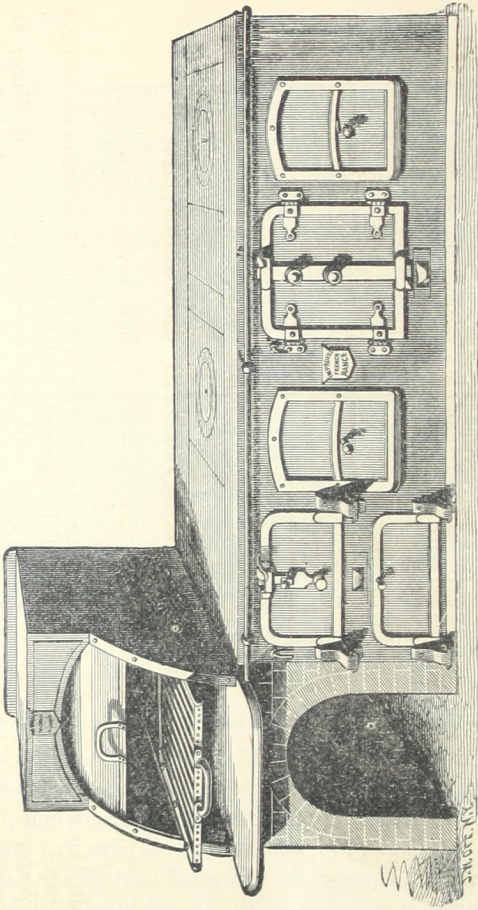
2 Sizes.

Length of Range 4 feet 3 inches and 4 ft. 5 inches, Grates 14 and 16 inches.

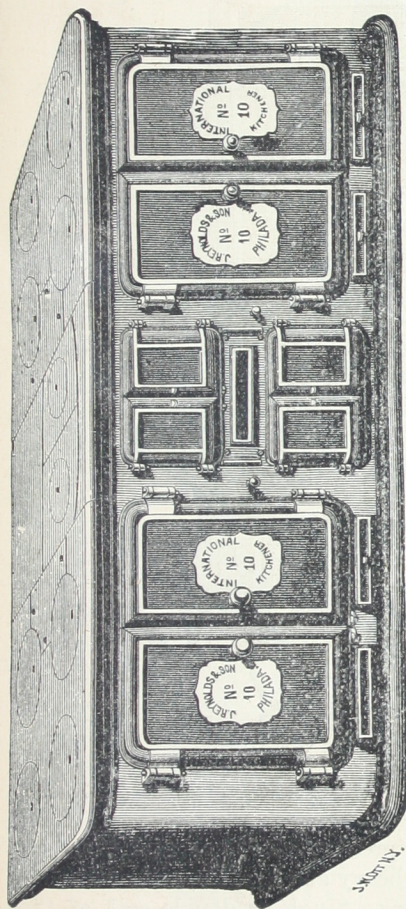
This cut represents our Patented Flat top Heating and Cooking RANGE. The Castings are made heavy and mounted with care, it has Grate adapted to Roasting and Broiling, in front, and plate rack, and will heat satisfactory one or more rooms over it, without requiring additional fuel, the surplus or wasted heat of the Range being utilized without interfering with its baking or cooking, no odors from the cooking pass up with the heated air, it is set up with either Circulating or Back Log boilers.

Price \$ Water Back and Copper Tubes \$
hot air fixture \$.

FRENCH RANGES AND BROILERS.



The FRENCH RANGE is acknowledged to be the best, most substantial and efficient Cooking Apparatus for large Hotels and Restaurants, and has decided advantages. It can be made of any size, to suit any Kitchen, and the arrangement of the Fires and Ovens to suit the purchaser. The cut represents the 7 feet Range and 26 inch Broiler. The Broilers can be set at either end of the Range or are sold and set up separately. Catalogue of sizes with prices furnished to those desiring them.



THE ABOVE CUT REPRESENTS OUR

No. 10 INTERNATIONAL KITCHENER.

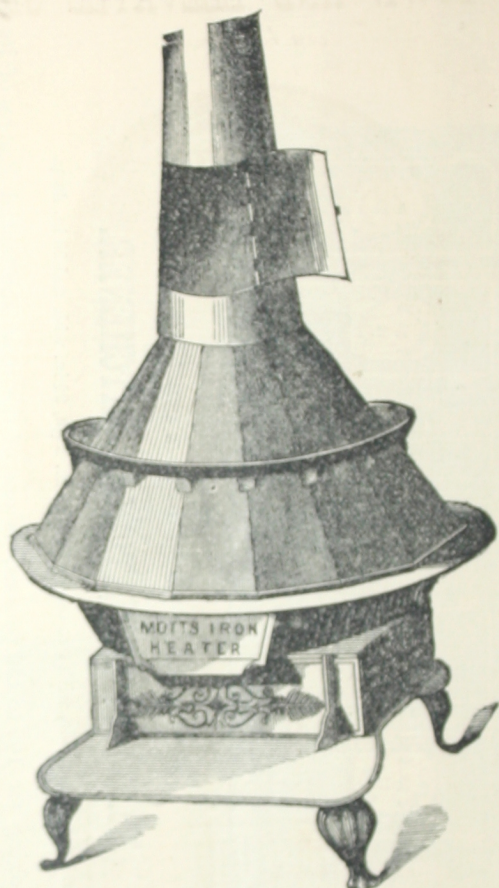
6 ft. 4 in. long, 30 in. wide, with two ovens, each 20 in. high, 23 in. wide and 28 in. deep.

It will do the Cooking for 100 to 150 persons, is one of the most substantial Ranges of its class now manufactured, and very desirable for small Restaurants and Hotels.

It has a Water Back or Patent Water Top and will heat a large quantity of Water and a Carving Table with the same fire. It is made for either wood or coal, and requires very little brickwork to set it.

Price \$ Water Back or Water Top and Tubes \$

IRON HEATER.



(NO. 2 HEATS 32 IRONS.)

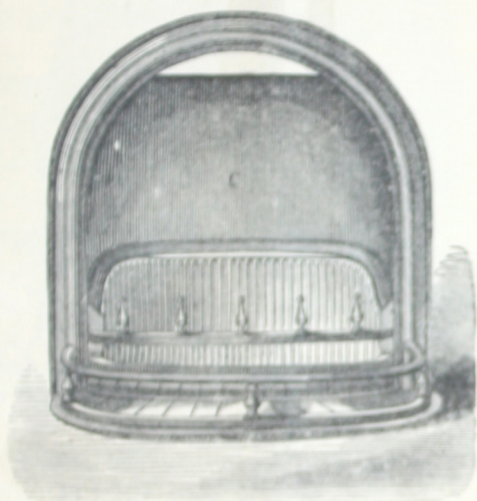
These heaters are made expressly for LAUNDRIES, HOTELS, and PUBLIC INSTITUTIONS, they are heavy and durable, and of different sizes to heat from 9 or 100 irons. Single or double coils of Pipe can be attached for Heating from 50 to 300 gallons of water.

LAUNDRIES

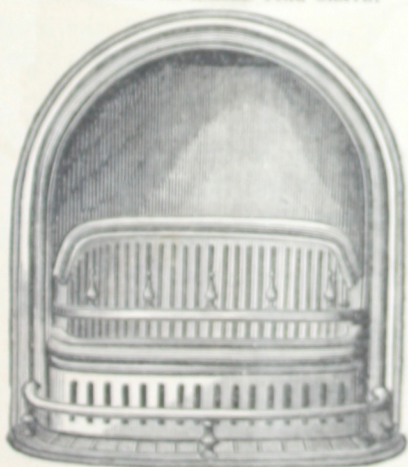
Furnished With COPPER KETTLES, set in brickwork, for wood and coal, SOAPSTONE or SLATE WASH TUBS, and all other appliances.

LOW DOWN AND ELEVATED GRATES.

LOW DOWN GRATE.



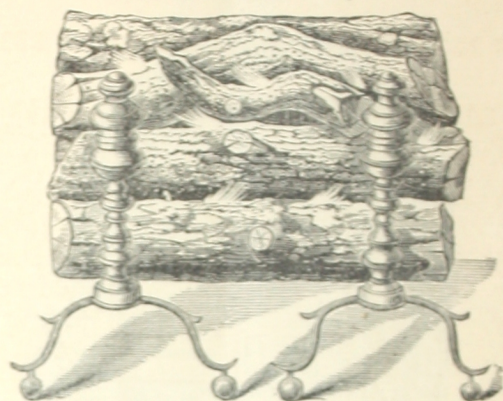
ELEVATED OR RAISED FIRE GRATE.



We have on hand and make to order Low Down and Elevated GRATES of elegant finish and designs, round or elliptical fronts in BLACK JAPANNED, DEAD GROUND, POLISHED, NICKEL PLATED, BRONZE, GOLD PLATED, GERMAN SILVER, &c., to suit any size opening in Mantels or Fire Places.

GAS LOGS.

(Patented June 6th, 1871.)



The above cut represents the "FRENCH GAS LOG," or imitation of wood fire.

The sticks of the Log are formed and colored to resemble hickory wood, and have fixed between them at different places splints of asbestos, which become incandescent when in use; so that, when gas is turned on, a match applied, the hundreds of small gas jets ignited and combined, the Log gives a close imitation of a hickory wood fire.

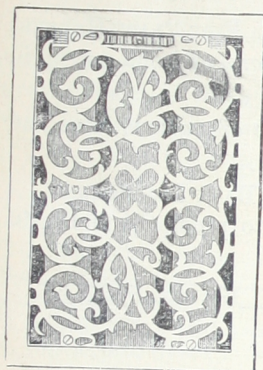
A good, cheerful fire is ever ready by simply turning on and lighting the gas, the flow of which is regulated with the same ease and appliance of the ordinary gas burner. It makes no dust, dirt, or ashes, and ventilates the room effectually.

The cost of burning, with gas at the rate of \$3 per thousand feet, turned on at full head, is from 8 to 15 cents per hour, according to size of Log. With private gas machines, a Log can be run for from 5 to 10 cents per hour.

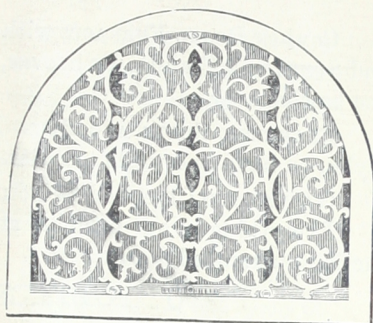
They are generally used in open fire-places, placed on andirons, either of the old style in brass, or of new and handsome designs and finish in steel, bronze or gilt. They can also be used in the low-down or half low-down grates, and the illusion is, perhaps, more complete in them than on andirons, as the absence of ashes is not noticed, and these flat-bottomed grates are now much used for wood.

Registers and Ventilators.

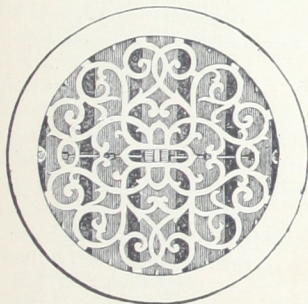
SQUARE REGISTER.



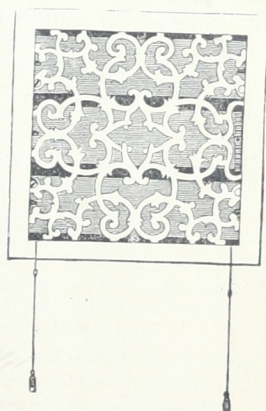
CIRCLING TOP REGISTER.



ROUND REGISTER.



SQUARE VENTILATOR.



We have a large assortment of HOT AIR REGISTERS AND VENTILATORS of neat designs and various sizes in BLACK JAPANNED, GOLD BRONZED, ELECTRO-COPPER BRONZED, NICKLE PLATED, WHITE PORCELAIN ENAMELED and PLAIN WHITE JAPANNED.

Also, ORNAMENTED PEDESTAL REGISTERS and SCREENS for COILS and STEAM PIPES.

Conservatories, Green Houses and Graperies

HEATED BY STEAM, HOT AIR,

or in any other manner to suit, and guaranteed.

COMMON ROUND FURNACES with Drums. FIRE PLACE HEATERS and SUNNYSIDE FIRE PLACE STOVES, always on hand and put up in the best manner.

ENAMELED, SLATE AND IRON MANTELS of various sizes and styles, on hand and made to order.

GALVANIZED CIRCULATING BOILERS and BACK LOG BOILERS.

Everything in our business attended to promptly, and satisfaction guaranteed.

J. REYNOLDS & SON.

REFERENCES.

As it would make too large a Pamphlet to publish all the Certificates we have received, we will give the names of a great number of those who are using our Furnaces, to whom we refer for any information as to their superiority.

PENNSYLVANIA.

PHILADELPHIA.

- | | |
|----------------------------------------|------------------------------------------|
| S. J. Sohn, 2024 Chestnut. | J. Warburton, 1614 Chestnut St. |
| Homer, Colliday & Co., 1412 Chestnut. | C. B. Wright, 1628 Spruce St. |
| Henry Lawrence, 1611 Summer. | Judge Thompson, 1630 Spruce St. |
| C. Schmidt, 2004 Girard Avenue. | Rathwell Wilson, 1712 Walnut St. |
| X. Ditsche, 2008 Girard Avenue. | J. H. Wisler, 2237 N. Sixth St. |
| C. Psotta, 2006 Girard Avenue. | P. Weidner, 15th above Thompson. |
| Jno. Newkumet, 2010 Girard Avenue. | Matthew T. Miller, 15th and Columb. Av. |
| Henry G. Haedrich, 15th and Locust. | Chas. Yarnall, 126 S. Twelfth St. |
| Dr. T. G. Morton, 1421 Chestnut St. | Furman Sheppard, 109 North 19th. |
| Edmund Smith, 1504 Arch. | Jno. Mitchell, 508 N. Fifth St. |
| S. Smucker, Jr., 230 North Tenth. | Wm. H. Mitchell, 1623 Arch St. |
| William Sellers, 1819 Vine. | E. M. Neal, 212 N. Twelfth St. |
| Jno. T. Taitt, 1518 Walnut. | Colored House of Refuge. |
| Tiers & Bradshaw, Pt. Pleasant Foundry | E. W. Wilson, 1608 Green St. |
| Geo. F. Tyler, 15th and Walnut. | Mrs. Jno. Gibson, 435 N. Sixth St. |
| Saml. Thornton, 1434 N. Seventh. | A. E. Kirkpatrick, 254 Franklin St. |
| Wm. H. Turner, 15th and Columbia Av. | Chas. E. Smith, 15th below Walnut. |
| Richard Vaux, 1900 Chestnut. | Henry C. Lea, 706 Sansom St. |
| Theo. Vetterlein, 1422 N. Broad. | J. M. Burns, 629 N. Sixteenth. |
| Theo. Adams, 833 N. Broad. | Baeder & Adamson, 730 Market St. |
| S. S. White, 1622 Arch. | S. Fuguet & Sons, 229 South Front |
| L. Waln, 914 Walnut. | Wm. H. Gill, 1608 Arch St. |
| Jno. H. Chambers, 2022 Walnut St. | Geo. W. Schwartz, 2048 North Seventh. |
| Fred'k Cadmus, 1312 Green St. | Jos. Hemphill, Jr., 459 Marshall. |
| J. S. Custer, 726 Arch. | Gavin H. Woodward, 1710 Vine St. |
| E. Dunbar, 1823 Chestnut St. | Mrs. S. Christiani, 4100 Pine St. |
| R. H. Downing, 1613 Race St. | W. C. Houston, 18th and Arch Sts. |
| M. C. Cope, 1312 Filbert St. | Clement L. Hughes, 1419 Arch St. |
| A. Craig, 1527 Walnut St. | James Irwin, 1536 Franklin St. |
| R. C. Clark, 244 N. Eleventh St. | Thos. Stinson, 748 Franklin St. |
| Geo. W. Connaroe, 1539 Chestnut St. | Mrs. M. Yardley, 527 Vine St. |
| Wm. Chestnut, 1814 Wallace St. | Dr. M. J. Grier, 312 South Fifteenth St. |
| Thos. Clyde, 1710 Arch St. | Jos. Bates, Jr., 18th and Delancy. |

- Thos. K. Peterson, 1612 Arch St.
 A. M. Moore, 1220 Arch St.
 J. B. Levy, 120 South Fortieth.
 Geo. W. Simons, 1424 North Broad St.
 William Bullock, 1731 Arch St.
 J. B. Van Harlingen, 3704 Chestnut St.
 Dr. H. Guernsey, 1423 Chestnut St.
 C. J. Stille, 1505 Walnut St.
 Mrs. McBride, 1233 North Second St.
 John Sellers, Jr., 3300 Arch St.
 E. Spencer Miller, 32d and Race Sts.
 W. Norris, 610 South Sixteenth St.
 Wm. Allison, 1843 Filbert St.
 William Bullock, 1731 Arch St.
 H. T. Bunn, 1943 Vine St.
 J. R. Carpentier, 1824 Pine St.
 Isaac Collins, Jr., 1431 Filbert St.
 Thos. Craven, for 8th and Cherry Sts.
 E. Dunbar, for 19th St.
 ———, 1723 Vine St.
 John E. Graeff, 1900 Arch St.
 Rene Guillou, 1722 Vine St.
 Thos. Miles, 1820 Arch St.
 Samuel Jeanes, 1029 Arch St.
 Geo. J. Link, 1526 North Franklin St.
 Robert P. Kane, 1024 Clinton St.
 R. & G. A. Wright, 624 Chestnut St.
 Mrs. M. Riter, 1223 Arch St.
 Jos. B. Sheppard, 2019 Arch St.
 H. A. Steel, Jr., 638 North 18th St.
 J. W. Shirk, U. S. N., 2046 Arch St.
 T. H. Stagers, 1705 Mt. Vernon St.
 Levi Taylor, 2225 Spruce St.
 Geo. M. Troutman, 1627 Arch St.
 B. Schell, 1004 Vine St.
 Landreth School, 23d and Federal Sts.
 S. Heidleberger, 1526 Franklin St.
 Andrew Wheeler, 1501 Spruce St.
 Dr. Thos. C. Williams, 567 York Av.
 Chas. C. Ashby, 810 North 16th St.
 S. Flannigan, 1509 Arch St.
 Jos. Cox, cor. 15th and Arch St.
 Chas. Tyler, 1528 Ridge Avenue.
 E. C. Geisse, 1317 Spring Garden St.
 M. Spackman, 402 South 40th St.
 G. M. Miller, 17th and Alleghany Av
 Chas. Miller, 2018 Wallace St.
 C. F. Lennig, 1506 Locust St.
 Wm. H. Trotter, 1303 Spruce St.
 Dr. C. P. Turner, 1506 Walnut St.
 Percival Roberts, 1935 Chestnut St.
 Geo. Pierson, 3907 Haverford.
 Geo. W. Bremer, 1700 Wallace.
 Geo. F. Knorr, 314 South Sixteenth St.
 M. E. McDowell, 1601 Mt. Vernon St.
 M. T. Cochran, 217 North Seventeenth.
 Dr. Samuel J. Dickey, 54 North 13th.
 M. Marshall, 49 N. 13th St.
 C. H. Garden & Co., Market and Sixth.
 Philip Newkumet, 23d and Vine Sts.
 F. Brown, 21st and Delancy.
 B. Reath, 16th and Pine St.
 E. Lewis, 208 South Fourth St.
 L. D. Baugh, 2009 Chestnut St.
 A. M. Burton, 1312 Spruce St.
 Edw. Clement, 124 South Nineteenth.
 Dr. Hopkins, 1113 Walnut St.
 E. J. Maginnis, 1733 Pine St.
 Chas. Porter, 1528 North Seventh St.
 P. Hassold, 1723 Francis St.
 Redman Abbott, 1926 Chestnut St.
 Wm. Amer, 800 Nth. Broad.
 Mrs. S. T. Allen, 1621 Chestnut St.
 Mrs. M. Bullock, West Logan Square.
 David Stuart, " "
 Wm. M. Christy, 40th and Spruce.
 J. Hutchinson Kay, 39th and Locust.
 Ellis Lewis, 40th and Spruce.
 Dr. J. K. Lee, 38th and Chestnut.
 Geo. B. Keen, 38th and Chestnut.
 Emile Geylin, 42d and Chestnut.
 Wm. Kelly, Woodland Terrace.
 J. Cadmus, 37th and Chestnut.
 Chas. B. Keen, 39th & Chestnut.
 James B. Ferree, 34th and Bridge.
 Saml. P. Ferree, 3508 Bridge.
 E. Lewis, 33d and Powelton Av.
 Jno. D. Taylor, 38th and Walnut.
 Chas. A. Rubicam, 2111 Vine.
 Mrs. Henry Biddle, 1623 Walnut.
 Jno. Baird, 1302 Spring Garden
 Jno. H. Brown, 1822 Rittenhouse Sq.
 B. H. Brown, 944 Franklin St.
 J. M. Ogden, 446 Marshall.
 Miss E. Otto, 1427 Spruce.
 J. F. Orne, 2047 Walnut.

- James Orne, 1937 Chestnut St.
 George Oat, 1307 Arch St.
 T. B. Peterson, 1400 Girard Avenue.
 Morris Patterson, 1511 Spruce St.
 Geo. W. Page, 272 S. Fourth St.
 Jos. S. Paris, Eighth below Locust St.
 B. B. Reath, 1538 Pine St.
 D. Rockhill, 1828 Arch St.
 Rockhill and Wilson, 603 Chestnut St.
 J. G. Repplier, 2005 Chestnut St.
 Saml. Sharpless, 1308 Walnut St.
 Saml. Simons, 1806 Green St.
 N. Stretch, 2215 Spring Garden St.
 Bishop Mat. Simpson, 1807 Mt. Vernon.
 Elijah Dallett, 415 North Tenth St.
 Dr. L. S. Filbert, 1902 Green St.
 Edwin Forrest, 1346 North Broad St.
 T. L. Gillespie, 1318 Arch St.
 Wm. Gillespie, 1500 Arch St.
 L. A. Godey, 1517 Chestnut St.
 Thos. Garside, 2121 Green St.
 Saml. Grant, 222 Pine St.
 Troutman & May, 312 Market St.
 St. Clement's School, 20th and Cherry.
 Benj. Marshall, 1116 Spruce St.
 W. J. Loflin, 4020 Chestnut St.
 R. W. Eastlack, 2306 Green St.
 A. B. Cox, 1121 Walnut St.
 S. W. DeCoursey, 1417 Spruce St.
 James H. Campbell, 21st and Delancy.
 D. B. Canfield, 21st and Delancy.
 Rev. Dr. Griffiths, 1904 Arch St.
 S. Vaughn Merrick, Penn Square.
 E. Jones Lester, 2d above Market St.
 J. R. Jones, 1526 Arch St.
 S. Hindman, 141 Susquehanna Avenue.
 Mrs. Bancroft, 33d and Baring.
 Lincoln Grammar School.
 R. B. Brinton, 730 Pine St.
 Mrs. Wyeth, Locust ab. Fifteenth St.
 J. H. Wisler, 8th bel. Oxford.
 Wm. C. Longstreth, Darby Road.
 John W. Claghorn, 1009 Arch St.
 Miss Longstreth, 18 Merrick St.
 Edw. Goodfellow, 927 Clinton St.
 County Prison.
 Jesse M. Cook, West Logan Square.
 J. B. Vandusen, " "
- Wm. B. Webb, 1000 Spring Garden.
 Wm. H. Hindman, 426 York St.
 Mrs. R. F. Pritchett, 1204 Spring Grd'n.
 Mrs. F. D. Way, 2035 Walnut St.
 J. W. Lauderbach, 2045 Wallace.
 H. P. McKean, 20th and Walnut St.
 Henry C. Lea, 20th and Walnut St.
 Dr. Laws, 20th and Spruce St.
 James T. Allen, 116 South 40th St.
 E. R. Taggart, 1709 Arch St.
 Mrs. M. A. Taylor, 302 South 10th St.
 Wm. Yarnall, 13th and Chestnut St.
 School of Design for Women.
 Patrick Ward, 331 S. Broad St.
 North'n Home for Friendless Children.
 Jno. Craig, 519 Marshall St.
 D. L. Miller, Jr., 2130 Arch St.
 Mrs. J. W. Goff, 17th and Summer St.
 H. J. Lombart, Penna. R. R.
 Richard Peterson, 812 North Broad St.
 Jno. Mason, 1722 Spruce St.
 Morris R. Stroud, Walnut ab. 20th St.
 A. D. Cash, 17th and Spruce St.
 Lemuel Coffin, 1516 Locust St.
 James R. Claghorn, 1729 Arch St.
 Redman Cooper, 1329 Arch St.
 Caleb Cope, 718 Spruce St.
 P. Niskey, Ridge and Girard Avenue.
 Geo. Lee, Franklin and Brown St.
 Dr. Jos. Leidy, 1302 Filbert St.
 Chas. Lennig, 18th and Locust St.
 Lippincott, Bond & Co., 413 Market St.
 H. C. Patterson, 1816 Wallace.
 Dr. Robert Morris, 1413 Spruce St.
 James Lukens, 531 Marshall St.
 W. Cornell, 519 North 7th St.
 Wm. Massey, 1417 Filbert St.
 James C. Hand, 830 Pine St.
 Saml. Huston, 723 Spruce St.
 Capt. Wm. Hart, Juniper and Walnut.
 E. A. Hendry, 2005 Arch St.
 E. C. Jayne, 1392 North Broad St.
 E. A. Johns, Spring Garden ab. 20th St.
 Wm. Trotter, " " "
 Jno. M. Kennedy, 1423 Arch St.
 Wm. H. Kern, 1536 Green St.
 H. Tucker, 1441 North 17th St.
 John Mason, 1722 Spruce St.

- Henry Raiguel, West Logan Square.
 Samuel Moore, " "
 Charles Blasius, 1004 Chestnut St.
 Kensington National Bank.
 Penn National Bank.
 Manufacturers' National Bank.
 William Biddle, 1705 Arch St.
 J. B. Budd, 1317 Spruce St.
 H. Boraef, 617 North Thirteenth St.
 David Bevan, 1725 Chestnut St.
 E. B. Orne, 39th and Locust St.
 Clarence H. Olark, 42d and Locust.
 R. Work, 38th and Locust St.
 James T. Bradshaw, 149 Richmond St.
 Samuel C. Collins, 1626 Mount Vernon.
 W. C. Allison, 1812 Chestnut St.
 James Weir, 1423 Girard Avenue.
 E. Y. Townsend, 1903 Spruce St.
 Geo. B. Roberts, 1901 Spruce St.
 Ferdinand Cox, 1308 Spruce St.
 Chas. Hartshorne, 1613 Filbert St.
 Leedom & Shaw, 635 Market St.
 T. J. Lancaster, 822 North Broad St.
 F. Brown, Delancey Pl.
 Edward Lewis, 208 South Fourth St.
 Thomas Dolan, 842 North Broad St.
 B. B. Sampson, Otis St.
 Link & Black, 7th and Germantown Rd.
 Mrs. E. C. Jayne, 931 North Broad St.
 American Sewing Machine Co., 1318
 Chestnut St.
 Bache Grammar School, 22d and Brown
 G. N. Tatham, 1114 Spruce St.
 W. J. Moodie, 1512 North 15th St.
 H. Einwechter, 1528 North 16th St.
 People's Bank, 411 Chestnut St.
 W. Y. Agard, 1429 North 15th St.
 J. P. Jones, 1423 Filbert St.
 James Pugh, 216 North 13th St.
 Miss Jane Thomas, 1423 Filbert St.
 Henry M. Phillips, 1325 Walnut St.
 E. Shippen, 532 Walnut St.
 T. P. Stotesberry, 1603 Green St.
 Girard Estate, 1106 Girard St.
 Girard Est, 306 Chestnut St.
 " 308 " "
 Mrs. T. K. Collins, 1915 Green St.
 J. L. Fricke, Lehigh Avenue.
 F. G. Wolbert, 2111 Spring Garden St.
- Dr. R. Morris, 1413 Spruce St.
 Rev. D. R. Goodwin, 3919 Locust St.
 German Cheese Co., 11th and Wharton
 Deaf and Dumb Asylum.
 Lincoln School, 20th and Coates St.
 F. L. Neall, 2031 Pine St.
 Jos. Oats, 614 North 16th St.
 Dr. E. Wilson, 1618 Chestnut St.
 R. B. Ellison, 1723 Arch St.
 Mrs. Jos. Tiers, 1908 Chestnut St.
 Wm. Harmer, Gray's Ferry Lane.
 C. P. Bowers, 1705 Francis St.
 A. J. Drexel, 39th and Walnut Sts.
 S. W. Van Culin, 1618 Green St.
 Jos. Holahan, 603 North 11th St.
 S. J. Humphrey, 1426 North 15th St.
 Paul Graff, 33d and Arch St.
 Mrs. Penrose, 700 Locust St.
 Jos. Lees, 3410 Bridge St.
 W. F. North, 3718 Locust St.
 E. W. Lehman, 1718 Arch St.
 C. Wetherill, 1529 Locust St.
 C. A. Griscom, 1730 Pine St.
 Public School, 17th and Francis St.
 W. H. Eccles, 739 Corinthian Avenue.
 J. M. Bennett, 11th and Spruce St.
 H. H. Wisler, Susquehanna Avenue.
 S. C. Ridpath, 1237 Shackamaxon St.
 M. C. Ridpath, 1241 " "
 P. C. Erbin, 206 West Logan Square.
 T. H. Morris, 1515 Walnut St.
 M. W. Woodward, 2112 Arch St.
 G. T. Rhen, 203 North 20th St.
 W. T. Snodgrass, 1726 Chestnut St.
 F. Graeff, 1337 Arch St.
 Dr. V. H. Belt, 52d and Spruce St.
 T. F. Adams, 1520 Girard Avenue.
 Julius Mountney, 1212 Vine St.
 B. Dalton Doerr, 118 S. 21st St.
 William Simpson, 1829 Spring Garden
 " " 1923 "
 " " 1225 Arch St.
 J. P. Logan, 3815 Spruce St.
 E. Lewis, 33d and Powelton Avenue.
 Samuel Wallace, 34th & Lancaster ave.
 F. A. Altemus, 540 North 40th St.
 C. M. S. Leslie, St. Alban's Place.
 James Otterson, 1715 Green St.
 Mrs. M. A. Binder, 1101 Chestnut.

- G. S. Graham, 1459 North 16th St.
 Harrison Grambo, 718 North 20th St.
 Rev. Wm. Suddards, 116 North 12th St.
 N. B. Browne, 4207 Birney Place.
 T. Wister Browne, 1206 Arch St.
 R. F. Kirby, 1937 Spring Garden.
 Dr. E. A. Spooner, 1430 Spruce St.
 H. Disston, Broad and Jefferson Sts.
 Mrs. Taylor, 4041 Walnut St.
 Nathan Myers, 1344 Arch St.
 Wm. S. Flemming, 3611 Baring St.
 F. Mende, 1610 Green St.
 M. D. Livensetter, 243 North 12th St.
 Strawberry Mansion, Park.
 E. Clarence Smith, 501 North 18th St.
 P. B. Simons, 1428 Poplar St.
 Mrs. Wm. Paul, 1821 Chestnut St.
 S. F. Corlies, 1717 Arch St.
 Wm. Haug, Franklin & Columbia Ave.
 M. A. Manderson, 3820 Spruce St.
 E. Greble, Jr., 245 North 17th St.
 Dr. C. A. McCall, 3941 Chestnut St.
 M. Tracy 1615 Green St.
 C. J. Fields, 36th and Powelton Ave.
 R. K. McNeely, 15th and Wallace Sts.
 W. H. Harned, Prospect & Myrtle Sts.
 I. Mears, 1102 Wallace St.
 Dr. W. Atlee, 1408 Arch St.
 Rev. J. B. Dales, 1628 Filbert St.
 Thos. Cunningham, 824 N. Broad St.
 H. B. Bunting, 1430 N. 15th St.
 J. M. Vanharlingen, 37th & Locust Sts.
 W. M. Woodward, 20 South 39th St.
 Mrs. S. K. Hoxie, 2018 Chestnut St.
 W. H. Jones, 4043 Locust St.
 A. B. Moore, 2040 Wallace St.
 Clarence White, 1633 Arch St.
 James D. Welch, 34th & Lancaster av.
 M. S. Hildeburn, 3909 Locust St.
 Baptist Home, West Philadelphia.
 J. F. Sinnott, 42d and Walnut Sts.
 Thomas M. Montgomery, Franklin &
 Columbia Avenue.
 Wm. Steffe, 3426 Sansom St.
 James Magee, 114 North 17th St.
 M. Ridpath, 1434 North 15th St.
 J. R. Carpenter, 1313 Locust St.
 W. J. Howard, 1231 North Broad St.
 Dr. J. Reed, 1601 Chestnut St.
 Geo. W. Hewitt, 923 Clinton St.
 S. Poey, 1817 Green St.
 Board City Trusts, 1126 Girard St.
 Barker & Bros., 3d St.
 H. A. Moodie, 1433 North 18th St.
 C. J. Sowers, 1926 Arch St.
 H. J. Mickley, 1329 South 15th St.
 Thos. Seabrooke, 34th and Race Sts.
 Israel Morris, 1202 Arch St.
 Dr. R. Morris, 1413 Spruce St.
 Wm. Baird, 1714 Spring Garden St.
 F. W. Morris, 251 S. 16th St.
 W. H. Rheinhardt, 1533 N. Broad St.
 Evan Morris, 2014 Chestnut St.
 J. E. Morris, 16th and Locust Sts.
 H. T. Gummey, 137 North 20th St.
 W. H. Allen, 34 North 19th St.
 Adams Express Co., 531 Chestnut St.
 William Simpson, 257 North 6th St.
 Phila. & Read. R. R. Co., freight sta.
 James A. Freeman, 1239 Coates st.
 Dr. J. S. Eshleman, Broad & Girard
 Avenue.

Germantown (Phila).

- George Thomas.
 Dr. M. Moore.
 E. LeBoutillier.
 St. Vincent's Seminary.
 Joseph Altemus.
 Edward Armstrong.
 C. D'Invilliers.
 J. Vaughan Merrick.
 H. P. McKean.
 F. A. Hoyt.
 C. Wister.
 W. Bonsall.
 Mrs. Burt.
 E. Collins, School Lane.
 Wm. H. Merrick.
 Wm. H. Adamson.
 C. M. Bayard.
 Reed A. Williams.
 Frank Colliday.
 F. Gutekunst.

Jno. Tiers.
 Thos. Clyde.
 W. C. Stiles, Jr.
 H. L. Carson.
 George Blight.
 S. V. Merrick.
 Jno. J. Lytle.
 B. R. Smith.
 Thomas W. Evans.
 A. Bacon.
 Wm. M. Lloyd.
 Saml. Lloyd.

Charles Ellis.
 E. L. Royal.
 National Bank.
 Mrs. E. Lehman.
 C. E. Davis.
 Lewis Taws.
 P. S. Mason.
 Mrs. F. A. Palmer.
 C. H. Rodgers, York Road.
 S. B. Kingston.
 E. J. Jeffries.
 S. F. Corlies.

Chestnut Hill (Phila).

S. M. Janney.
 Mrs. C. Thort.
 Edward H. Trotter.
 Charles Trotter.
 Wm. H. Trotter.
 A. Groves.
 J. B. Cowperthwait.
 Richard Norris.

Mrs. Heebner.
 Edward Shippen, U. S. N.
 Jas. E. Terry.
 R. Levick.
 Joseph Howell.
 J. R. Price.
 Hon. Alex. Henry.

Bridesburg (Phila).

C. Arnois.
 B. H. Jenks.

Mrs. Sarah Jenks.
 U. S. Arsenal Officers' Quarters.

Tioga (Phila).

Thomas Craven.
 S. R. Hilt.

C. E. Robinson.

Holmesburg (Phila).

J. R. Wucherer.
 Samuel Work.

W. A. M. Fuller.

Manayunk.

Churches.

Roman Catholic Church, Holmesburg.	Keneseth Israel, 6th and Brown Sts.
First Baptist, West Philadelphia.	Church of the Nativity, Eleventh and
Fifth Baptist, 18th and Spring Garden.	Mount Vernon.
St. Mathew's, 18th and Girard Avenue.	Grace, corner 12th and Cherry.
St. Clement's, 20th and Cherry Sts.	Cohocksink, 7th St.
Wharton St., Ninth and Wharton.	St. Luke's, Germantown, Pa.
Church of the Saviour, West Phila.	M. E. Church, 40th and Sansom.
Berean Baptist, " "	Tabernacle M. E., 11th St.
Kensington M. E., Richmond St.	Holy Apostles, 21st and Christian.
Arch St. M. E., Broad and Arch Sts.	Episcopal, Chestnut Hill.
St. James' Episcopal, 22d and Walnut.	Presbyterian, Bridesburg.
St. James' West Philadelphia.	Bethel M. E., Washington Ave.
St. Peter's Chapel.	Christ Church, Germantown.

READING.

Mrs. Jno. D. Banks.
 Diller Luther.
 H. H. Muhlenburg.
 Isaac Eckert.
 C. S. Eckert.
 M. Stetson.
 Convent, I. H. M.
 Warren Woodward.
 P. O'Reilly & Co.
 W. A. Medlar.
 Rev. J. J. Kuendig.
 St. Paul Ref. Church.

Reading R. R. Rolling Mills.
 J. Vaughn.
 H. Trexler.
 Henry A. Seyfert.
 B. Frank. Boyer.
 Tobias Barto.
 Jacob S. Livingood.
 Samuel C. Mayer.
 William McIlvain.
 John O'Reilly.
 Isaac McHose.
 Geo. F. Baer.

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J. W. Wilson.
 J. Saeger.
 Wm. Miller.
 Allentown National Bank.
 Muhlenburg College.
 County Jail.
 Fifth Ward School House.
 English Reformed Church.
 Presbyterian Church.

Mrs. Keck.
 C. Pretz.
 James H. Bush.
 R. S. Shimer.
 Samuel McHose.
 Samuel Annewart.
 F. Gould.
 L. Kerns.
 S. Saeger.

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 Edward Bailey.
 John H. Hobart.
 C. E. Byers.

Hartranft & Bro.
 Isaac Pegley.
 Mrs. E. B. Davis.
 Mrs. Lucinda Rittenhouse.

RIDLEY PARK.

H. F. Kenney.

New Hotel.

CHELTEN HILLS.

H. C. Davis.

Thomas Mellor.

ABINGTON.

William K. Bray.
 William G. Audenried.

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 Robert Gray.

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Josiah Funk.
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Court House.
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Nathan Tidd.
W. Bramhall.
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Jno. A. Coddling.
J. F. Sanderson.
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E. A. Parsons.

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Dr. Rush.
Dr. B. H. Troop.
Rev. M. P. Whitty.
Rev. Father Schelle.
Penn Av. Baptist Church.
St. Mary's R. C. Church.
Blakely Baptist Church.
D. L. & W. R. R. Passenger Depot.
Lackawanna Valley House.
S. H. Stevens.
S. S. Balubridge.
S. M. Nash.

H. Bellin, Jr.
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M. H. Dale.
D. B. Brainard.
Dani. Howell.
Thos. Dickson.
S. B. Coston.
E. A. Forrester.
J. W. Garney.
E. E. Hendricks.
A. H. Winton.
C. P. Mathews.
R. J. Mathews.
Wm. Mathews.
P. McCann.
H. S. Pierce.
D. N. Green.
R. W. Luce.
H. B. Phelps.

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Ded. & H. C. C. Offices.
Welsh Cong. Church.

E. W. Weston.

MUNCY.

Joshua Bowman.
Henry Johnson.
First National Bank.

Dani. Klapp.
Lycoming Ins. Co.
School House.

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John H. Bliss.
Henry Rawie.
J. F. Downing.

Genl. C. M. Reed.
Chas. M. Reed.
Jas. H. Neill.
H. S. Seaman.

E. H. Stearns.
 W. R. Davenport.
 Central Pres. Church.
 Dr. Wm. Faulkner.
 S. A. Davenport.
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 A. T. Loomis.
 James Casey.

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 Geo. B. Bennett.
 Jno. Saltsman.
 Erie Co. Savings Bank.
 Geo. P. Colt.
 B. B. Vincent.
 P. A. Meyer.

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Col. James Meyers.
 C. S. Kauffman.
 Presbyterian Church.
 Third Ward School House.
 H. G. Case.
 J. G. Hess.
 C. B. Grubb.
 P. Haldeman.

A. Bruner.
 Dr. F. Hinkle.
 William Patton.
 Geo. W. Haldeman.
 Dr. D. J. Bruner.
 E. Hershey.
 Hiram Wilson.

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Barr Spangler.
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Ethelbert Watts.

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New Church.
 Stewart Lyons.

B. Ayres.

BLOOMSBURG.

Rev. D. J. Waller.

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 F. W. Huidekoper.
 H. S. Huidekoper.
 E. W. Shippen.
 Hon. S. B. Dick.
 John Dick.
 Episcopal Church.
 J. R. Dick & Co.

George J. Cullum.
 Huidekoper Grammar School.
 Fowler's Opera House.
 Hon. S. Newton Petott.
 Theological Seminary.
 Meadville Savings Bank.
 Pearson Church.
 Geo. W. Delamater.

MERION.

David Morgan.

Dr. Lodge.

MILLERSVILLE.

State Normal School.

Dr. J. S. Hess.

WILKESBARRE.

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 T. F. Atherton.
 Owen Hughes.
 Hon. Edmund Taylor.
 H. S. Butler.
 H. H. Derr.
 Dr. Wm. Brisbane.
 Dr. Geo. Urquhart.
 Dr. E. R. Meyer.
 Lewis Landmeeser.
 Geo. L. Palmer.
 Stanley Woodward.
 J. Wells Hollenbeck.
 A Strauss.
 Hon. G. M. Harding.
 Dr. Diefenderfer
 Joseph Stickney.
 Henry W. Palmer.
 Samuel R. Reading.
 Hon. Henry M. Hoyte.
 W. G. Sterling.
 H. Harvey.
 S. McArrier.
 L. D. Shoemaker.
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Chas. A. Miner.
 Luzerne Powder Co.
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 Hon. John Reichard.
 Calvin Wadham.
 C. F. Bowman.
 St. Clement's Church
 Gen. P. A. Oliver.
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 E. W. Sturdevant.
 John W. Horton.
 Charles Morgan.
 Mrs. Charles Bennett.
 T. C. Harkness.
 Wm. Conyngham.
 Mission Chapel.
 First Ward School.
 Presbyterian Church.
 Court House.
 A. H. Vanhorn.
 Murray Reynolds.
 Mrs. J. Miner.
 Mrs. Stewart.
 R. Pettibone.
 P. L. Thurlow.

WYOMING.

N. Vanhorn
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Danl. Vanscoy.

KINGSTON.

Elijah Reynolds.
 School House.

E. R. Tubbs.

PLYMOUTH.

Fuller Reynolds.

Jno. B. Smith.

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 Thomas L. McKeen.
 James W. Long.
 O. H. Meyers.
 Fred. Seitz, Jr.
 Daniel Black.
 H. J. Tomblor.

David Garris.
 James Dinkey.
 Miss Jane Horner.
 Miss Ann Horner.
 High School.
 Brainerd Presbyterian Church
 First Presbyterian Church.

Dr. C. C. Field.	Lafayette College (several).
Cornelius Stewart.	Saml. Boileau.
Jno. T. Knight.	Levi Bennett.
Henry Bender.	Henry B. Semple.
Easton Bank.	Winfield S. Hallick.
St. Philip's and St. James' Roman Catholic Churches.	Evan Birkman.

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Masonic Hall.	R. Q. Butler.
A. W. Butler.	Upper High School.
Hon. W. G. Belford.	Lower High School.

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Miss Moore.	James H. Perkins.
Henry Smith.	Dickinson Seminary.
Dr. Thomas Lyon.	D. W. Smith.
Chas. Hebard.	Mr. Sheffer.
Wm. R. Young.	" Hall.
J. P. Finley.	" Beeber.
John Finley.	" Hartshorne.
Chas. Hagan.	Geo. W. Quinn.
Henry Colton.	Hon. S. Linn.
Saml. Filbert.	

CHESTER.

W. Ward.	Crozer Theological Seminary.
Edmund Pennell.	Professors' Dwellings, do
D. S. Bunting.	Rev. B. Griffiths.
J. L. Crozer.	Baptist Church, Upland.
S. A. Crozer.	Dr. W. Ulrich.
Geo. K. Crozer.	J. W. Lewis.

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John C. Hagar.	Geo. M. Steinman & Co.
New Hospital.	Isaac Diller.
County Poor House.	J. W. Gill.
A. S. Henderson.	John F. Long & Son.
Moses Geisenberger.	D. P. Locher.
Shultz & Bro.	James Black.
George D. Sprecher.	J. Frederick Sener.
S. H. Reynolds.	Moravian Church.
Benj. F. Shenk.	Hon. O. J. Dickey.
T. E. Franklin.	F. Shroder.
Wm. B. Fordney.	George K. Reed.
Harnish & Co.	H. W. Hagar.
County Court House.	— Eshleman.
Farmers' National Bank.	Zion Lutheran Church.
H. F. Sener.	

TROY.

V. M. Long & Son.

S. W. Pomeroy.

OXFORD.

Union Presbyterian Church.

National Bank.

JERSEY SHORE.

West Branch High School.

Jersey Shore Bank.

CENTRALIA.

Presbyterian Church.

Locust Mountain Coal and Iron Co.

J. M. Freck.

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George Brinton.

P. Wright.

Dr. Robert Smedley.

H. S. Dickinson.

Dr. William Smedley.

Jno. M. Hildeburn.

William Waddell.

William P. Townsend.

E. D. Haines & Co.

Joseph Hemphill.

Albin Garrett.

Lydia Townsend.

Friends' Meeting House.

Public School House.

Charles H. Pennypacker.

First National Bank.

P. Hoopes.

William Butler.

Thomas W. Marshall.

Charles B. Lee.

Mrs. L. A. Pyle.

Dr. Jacob Price.

Dr. Martin.

J. J. Pinkerton.

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George Thomas.

Mrs. Mary Jones.

Palmyra Evans.

Samuel Parker.

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Miss Ann Gibbons.

William H. Painter.

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County Poor House.

R. T. Cornwell.

Kirk, McVeagh & Co.

Eber Woodward.

Joshua Hartshorne.

W. S. Kirk.

Robt. E. Monaghan.

Henry Buckwalter.

Dr. Jones.

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Miss Gorgas.

J. B. Bancroft.

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Col. Frank Jordan.

Jno. B. Cox.

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Hon. A. O. Heister.

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Geo. Wolf Buehler.

David McCormick.

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J. F. McClellan.

Thos. T. Wireman.

A. J. Herr.

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 Benj. Haywood.
 T. H. Wintersteen.
 Union Hall.
 County Prison.
 County Court House.
 County Poor House.

Public School House.
 W. E. Boyer.
 Frank W. Hughes.
 Christopher Little.
 L. Mattson.
 Rev. G. W. Smiley.

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 S. B. Worth.
 Dr. Jesse Coates.
 Ab'm Gibbons.
 Huston & Penrose.
 Jas. Penrose.

New Hall.
 Chester Valley Bank.
 B. F. Speakman.
 Alex. Taggart.
 Chas. Penrose, Jr.

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 C. F. Young.
 William H. Foster.

G. G. Waller.
 C. P. Waller.
 W. H. Stanton.

LOCK HAVEN.

S. D. Ball.
 L. A. Mackey.
 A. Grafius.
 Presbyterian Church.
 T. C. Kintzing.
 H. T. Beardsley.
 Samuel Christ.
 Scott & Sons.
 Court House.
 Public School House.
 Hon. Charles A. Mayer.
 County Jail.

Hon. William M. Parsons.
 A. Farnsworth.
 D. Blanchard.
 New Opera House.
 R. G. Cook.
 S. R. Peale.
 A. S. Furst.
 Trinity M. E. Church.
 Presbyterian Church.
 William H. Moore.
 Geo. Hipple.

LEESPORT.

J. G. Kaufman.
 Gernant Church.

Leesport Church.

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 Robinson & Co.
 School House.

M. Enterline.
 E. J. Fry.
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M. E. Church.
 Jona. Boynton.
 Presbyterian Church.
 Richard Shaw.
 Saml. Mitchell.

Shaw House.
 First National Bank.
 Hon. William Bigler.
 School House.

YORK.

John H. Small.
 David E. Small.
 Samuel Small, Jr.
 Smalls, Bender & Co.
 P. A. & S. Small.
 Chas. Billmeyer.
 E. C. Bender.
 A. Gartman.
 Mrs. Doudel.
 Dr. E. H. Pentz.
 Dr. Roland.
 Dr. Blair.
 Geo. E. Hersh.
 Wm. Laumaster.
 H. McIntire.
 Jno. M. Brown.
 Geo. Heckert.
 Wm. Kurtz.
 Edw. Chapin.
 New College Building.

Wm. Brown.
 Harvey Jacobs.
 R. Hoffhines.
 John S. Croll.
 John A. Weiser.
 Gates J. Weiser.
 Weiser, Son & Carl.
 Jere. Carl.
 Mrs. Chapman.
 S. Hersh.
 John Herr.
 Public School.
 G. W. Barnitz.
 Danl. Heckert.
 P. Wicks.
 York National Bank.
 David Rupp.
 H. Lavrius.
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Odd Fellows' Hall.
 Public School House.
 W. J. Moodie.
 A. K. Walters.
 Jos. W. Garner.

H. A. Moodie.
 Geo. H. Helfrich.
 E. Mayer.
 E. Bast.

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 Mrs. P. M. Hunter.
 Chas. E. Morris.
 Hon. Jno. F. Hartranft

Samuel Abraham.
 B. E. Chain.
 S. D. Powell.

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Reuben Boyer.
 C. D. Fuller.
 National Bank.

Rev. C. Earl.
 J. Williams.
 Lutheran Church.

PINE GROVE.

D. R. Miller.

Levi Miller.

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New Court House.

BRYN MAWR.

E. Tracey.
 Jas. Rawle.

Addison Hutton.
 J. H. Whitney.

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 Peter Baldy.
 E. H. Baldy.
 Rev. J. H. Torrence.

Fourth Ward School.
 Rev. W. Greaves.
 Wm. Hancock.
 First Ward School.

MONTROSE.

Court House.

County Jail.

ALTOONA.

J. M. Campbell.
 R. A. O. Kerr.
 Market Hall.
 New School House.

Second Presbyterian Church.
 German Reform Church.
 Methodist Church.

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Dr. S. R. S. Smith

WHITE HALL.

Dr. E. Peace.
 William Smedley.

Enoch J. Davis.

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National Bank.

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 Misses Shaffer's.
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 Allegheny National Bank.
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 Weyman & Bro
 Twelfth Ward School.
 Dr. J. Guy McCandless.
 City Bank.
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 T. C. Fulton.
 Wm. Mitchell.
 German Luthern Church.
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 St. Andrew's Church.

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 J. B. Morgan.
 City Hall.
 Jos. Plumer.
 J. Grier Sproul.
 P. Morganstern.
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 Third Presbyterian Church.
 Moorhead & Co.
 Grace Presbyterian Church.
 Penna. R. R. Co.
 Pittsburgh Gas Co.
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 Duquesne Club.
 National Trust Co.
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 Rev. Carnahan.
 Wm. Moorhead.
 Alex. Wilson.
 Jos. Wilson.
 Saml. Wilson.
 Mathew Mawhiney.
 Wm. P. Baum.
 Penna. Female College.
 Hon. H. B. Swoope.
 W. O. Sculley.
 Mrs. Mary Michell.
 Jas. McKay.
 Edw. Aiken.
 Twenty-first Ward School.
 H. Menold.
 Robert Bailey.
 S. McClean.

L. P. Hitchcock.
 Jas. Rea.
 Wm. Rea.
 D. Stewart.
 B. F. Vandevort.
 R. H. Hartley.
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 Wm. Smith.
 Harvey Childs.
 Dr. McClintock.
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 Alex. Chambers.
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 Saml. Harper.
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Spreen Bros.
 Thirty-second Ward School.
 R. B. Brown.

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 C. C. Hussey.
 R. L. Orr.
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 W. P. Logan.
 W. Dunseath.
 Fourth Ward School.
 Hon. Thos. M. Marshall.
 Home for the Friendless.
 Geo. Shyars.
 Wm. Miller.
 Jno. H. Mullen.
 A. Force.
 Rev. Jno. Sproul.
 Rev. Wm. Preston.

Geo. Black.
 Robt. Thompson.
 Dr. Thomas Mabon.
 C. C. Townsend.
 Henry Phipps.
 Wm. McKilvey.
 Henry W. Patterson.
 W. Stewart.
 Wm. McCullough.
 Jno. B. Dallas.
 S. A. Cosgrave.
 Jas. Gordon.
 Manchester Savings Bank.
 D. McCandless.
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Hiram Stowe.
 E. P. Townsend.

Presbyterian Church.
 C. C. Townsend.

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Beaver Falls Cutlery Co.

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Wm. Harbaugh.
Alex. M. Watson.

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Armstrong County Jail.

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Danl. Kain.

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N. Ingraham.

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S. S. Metzger.

M. E. Church.

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School House.
Isaac N. Anderson.
United Pres. Church.

Jos. Forker.
E. Griswold.
J. M. Wilson.

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B. M. Johnson & Co.
James Denniston.

Mrs. J. Bell.
Mrs. J. L. Hemphill.

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Wm. J. Baer.
H. L. Baer.

Cyrus Myers.
Wm. Koontz.

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Episcopal Church.
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